

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

a magnetic layer formed on the underlayer, wherein the magnetic layer comprising crystal grains having

(a) an $L1_0$ structure mainly including Fe and Pt, and

(b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Cu, Au, Zn, Sn, Pd and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:

$(Fe_{1-x}Pt_x)_{100-y}M_y$

where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Cu, Au, Zn, Sn, Pd and Mn.

Claim 2 (Original): The medium according to claim 1, wherein the substrate is a glass substrate.

Claim 3 (Canceled).

Claim 4 (Currently Amended): The medium according to claim ~~[[3]]~~ 1, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

Claim 5 (Original): The medium according to claim 1, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 6 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

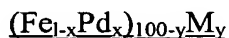
a magnetic layer formed on the underlayer, where: the magnetic layer comprising crystal grains having

(a) an $L1_0$ structure mainly including Fe and Pd, and

(b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Cu, Au, Zn, Sn and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:



where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Cu, Au, Zn, Sn and Mn.

Claim 7 (Original): The medium according to claim 6, wherein the substrate is a glass substrate.

Claim 8 (Canceled).

Claim 9 (Currently Amended): The medium according to claim [[8]] 6, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

Claim 10 (Original): The medium according to claim 6, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 11 (Currently Amended): A magnetic recording medium comprising: a substrate;

an underlayer formed on the substrate;

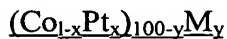
a magnetic layer formed on the underlayer, wherein the magnetic layer comprising crystal grains having

(a) an $L1_0$ structure mainly including Co and Pt, and

(b) 0.1 to 50 atomic percent of at least one element selected from the group consisting of Ni, Au and Mn; and

a protective layer formed on the magnetic layer,

wherein the crystal grain has a composition represented by the following formula:



where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50, M is at least one element selected from the group consisting of Ni, Au and Mn.

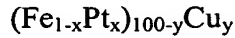
Claim 12 (Original): The medium according to claim 11, wherein the substrate is a glass substrate.

Claim 13 (Canceled).

Claim 14 (Currently Amended): The medium according to claim ~~[[13]]~~ 11, wherein x ranges from 0.4 to 0.56, y ranges from 3 to 20.

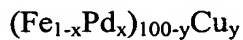
Claim 15 (Original): The medium according to claim 11, wherein the magnetic layer has a thickness of 50 nm or less.

Claim 16 (Previously Presented): The medium according to claim 1, wherein the crystal grain has a composition represented by the following formula:



where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50.

Claim 17 (Previously Presented): The medium according to claim 6, wherein the crystal grain has a composition represented by the following formula:



where x ranges from 0.4 to 0.6, y ranges from 0.1 to 50.

Claim 18 (Previously Presented): The medium according to claim 1, wherein the underlayer is made of MgO.

Claim 19 (Previously Presented): The medium according to claim 6, wherein the underlayer is made of MgO.

Claim 20 (Previously Presented): The medium according to claim 11, wherein the underlayer is made of MgO.